

crying at once, and put on a fook of amagement which washald, also, of fear, and with this expression I was compelled to be content. The grandmandier to the content of the ated sights have brought the small arms nearly up to their highest point of efficiency. With the artillery accuracy of range for solid shot and percussion shells, along with rapidity of firing, have also been acquired. These are of the greatest benefit to an attacking party who have to batter down eities and fortifications, but they are of little use in defense against light, rapidly-moving batteries and masses of infantry. Solid shot and percussion shell go hurtling over their heads or plow up the ground. Only when a lucky shot dismounts a gun or explodes a magazine is any real execution done. Shrapnel is the most effective missile for the destruction of men. With for the destruction of men. With shrapped the great difficulty heretofore but was all the time arranging her has been the inaccuracy of the fuse. The ordinary powder fuse is a time fuse, and even though the utmost care be taken in its construction, lack of homogeneity in material, dampness, etc., will cause it to vary in time of burning. When to this is added variations in the time of flight of the projectile due to variations in the quality and amount has been the inaccuracy of the fuse. variations in the quality and amount the camera. Tot will look, said she, of powder used behind it, there is an acof powder used behind it, there is an accumulation of variable conditions that renders the probability of the shrapnel's explosion any where within a mile of the desired point inconsiderable. A perfect fuse must, then, be a mechanical the desired point inconsiderable. A per-fect fase must, then, be a mechanical to have a baby's picture taken than it loes to get an adult's photograph. -N.

of a certain time. Thus the disturbing effect of variations in the charge and the dangers of premature explo along with all the other sources; of inaccuracy are removed. For twelve years the Berdan "rangefinder" has been in use by all Governmiles on a graduated scale. But the usefulness of the range-finder has been restricted in cases where shrapnel was to be fired because of the inaccuracy of the fuse. There was little use in an officer's being able to tell that a battery wheeling into line in front of his posi-tion was just 10,950 feet away if he could not depend on the fuses to exploite his shrappel within 2,000 feet of the fighting horse." And his first caution was: "Be kind to them in all the lattery. As the result of six or seven years' work, there has been perfeeted within the last few months a mechanical distance-fuse which is compact in form, cheap and accurate. The combination of this with the range-finder will render the lot of the attacking party any thing but a happy one. This compact and simple little piece of mechanism swings in a little cavity in the nose of the shell and does not turn. The shell receives a twist by the rifling of the gun and makes just so many turns for every thousand feet traversed ans of a neat little train of an endless serew working in a gear-wheel, which is also an endiess screw and turns a third year, the motion of the shell is reduced a thousand times before it reaches this last gear. When the third gear has been turned a certain distance, determined by properly setting it, a spring is released and the shrapnel exploded, scattering a thousand builets about the neighborhood. A per-cussion cap placed in the nose of the hell causes it to explode if it hits any thing in its flight. In practice the fuse is found to work with great accuracy and the second shot has generally blown the target entirely to pieces. Three minutes are generally allowed for a battery to swing into line and unlimber. This gives the defenders time to get their range and fire three shots. In practice the first shot has never failed so o sweep the spot where the supposed battery was that the other two were unnecessary. The Turks are now mann facturing these fuses by the thousand, nd many other governments, especially the smaller ones, are clamoring for them. It is claimed that the combination of these with the range-finders will give the defending party such an advan-tage that nations will let one another e, or at least think twice before they go forth conquering and to conquer. The Russian Minister of War, when a model of the apparatus was shown, expressed

one which will be accurate in its work-

irg and not affected by age and moisture as the chemical fuse is. It should also

be a distance-fuse, which will act at the

expiration of a certain distance instead

was possible. The old officers might

some less certain path to death. The

stay, but the young men would

the adult female members are detailed to go to the photographer and see the performance through," said a leading photographer recently. "We are pleased," he continued, "if the retinue is confined to the youngster? relatives, but generally a neighbor or two are added to the train to give up unbiased.

dress, while my assistant was getting

which were completely stroyed. The tally stick at the National Museum is a gift from Mr. A. M. Franks of the British Museum. It reg-

isters the payment of £100,000 in par principal on a loan £140,000 due Sep tember 30, 1789, and paid Novembe 28, 1776.—Washington Star.

TRAINING DOGS

Than Brutal Cruelty.

Hough, an experienced trainer, "can

not be taught precisely the same kinds of tricks. For example, you would

hardly expect a mastiff to sit up or walk

down street with a roguish smile on his

poodle. It may be that there are some

very intelligent-looking animals that it

learn not only to please their masters but to please their own canine vanity as well. Now, unless you love your dog, and he loves you, and you can put

recognizes the cause of the punishment.

mixed and he remains the same a

when his schooling commenced, except

good sense and temper is so eager to

master, and if this fact were kept in

mand for corporal punishment. Three

out of every five dogs may be complete ly trained without a blow. Patience and

studied, and while giving lessons the trainer should never lose his tem-

of any use. While the trainer is pa-tient, kind and forbearing, he must

also be persistent and firm. A puppy

how class the methods of two trainers may agree. Another secret of

always use precisely the same intona-

dogs often go a good deal by this, would have no hesitation in undertak

ing to train a clever dog entirely by the dumb show method, and would pre-

wiser they look the more teachable they will be."—Indianapolis Journal.

SNAG-BOAT NO. SIX

The Largest Craft of Its Kind Affort

Down on the Allegheny wharf, to-

ward the point, there lies a veritable

should have but one teacher, no matt

tinue to lash him his instincts

no secount vill it do to whip him

face, a pipe in his mouth and a hat or his head tipped much to one side, but

EDUCATION OF HORSES. Denton Offutt's Great Rule, "Be Kind to

Y. Mail and Express

Denton Offutt, who printed in 1854 a book on horse education, which he furnished to his pupils under a bond of se. erecy and at a cost of three hundred dolments. It is an arrangement of two telescopes which, on the principle of a lars' each, emphasized the fact that there simple problem in triangulation tells was a wide difference between breaking the distance of any object within six an animal and teaching it to obey. ly meant spoiling the horse. The system which he taught was based upon judgment, study of temperament and tirmness divorced from cruelty. He classed under three heads the one-toed animals which stood in greatest need of

The rules laid down by Offutt for teaching horses to heed the word of command are essentially the same as those practiced by his followers. The most careful of the instructors have enlarged upon his method of treatment, but they have not attempted to get away from the roots of the plan. In the quaint dialogue "between man and horse," as written by Denton Offutt, and which contained the essence of all that the painstaking instructor Rarey ever taught, these golden words drop from equine lips: "You must let me see that you will not hurt me, nor will have any thing about you that will, nor any thing that smells badly. I am a stranger to you; all that will offend any of the five senses I will be compelled to guard against, and those senses must have the proof that you will not hurt me before I will allow your hands to be on me." Every man who in the last thirty odd years has successfully illustrated the art of subduing horses has stuck to the rule which requires an appeal to the understanding of the animal. The devices them, and the wiser they are and the which requires an appeal to the under-standing of the animal. The devices which Offut used for throwing and get-ting full control of unruly horses were cruder than those in present use, but the principle has undergone no change. And the advice which Offutt gave his class in 1854 is valuable to those who seek instruction now: "You must have some judgment of your own, for I can not point out the case to suit you all. not point out the case to suit you all. If I teach you the rules and principle you must work out the sum."—N. Y. Herala.

conster in the way of a steel-hulled vessel. For months a great corps of workmen have been engaged in putting this QUEER MONEY. shape, and in a few days she will be aunched and taken to St. Louis to com Among the curiosities in the National plete her rigging. The vessel in ques-tion is the new steel-hulled snag-boat, which has been built by a Pittsburgh Museum at Washington is the collection of obsolete paper money. A writer deirm for the United States Governm scribes some of the more striking of The vessel will be the largest snag-boat these interesting specimens of antique afloat in American waters. It was buil bis fears that it would be impossible to recruit his army if such deadly accuracy as Shepherd's money, which is still in under the direction of Major A. M. Milas Shepherd's money, which is still in some parts of Mexico. The money in by Captain E. F. White. It has cos question consisted of two bits of paper \$57,000 to build, and weighs about four wily Turk promises to snap his finger in the face of Europe and settle the Eastern question all by himself if a in black, without any attempt at ornaabout the size of a fifty-cent shinplaster. hundred tons. By means of the appar-atus with which the vessel is to be provided, she can readily lift an obstruc-tion of one hundred tons weight from the bottom of the river. The boat is year's leisure to introduce this inven- ment or any of the usual devices to BABY'S PICTURE.

The Experience of a Photographer Who
Tells How it is Taken.

"When the baby is to be photographed a family consultation is held, and all the adult female members are detailed. called the Charles R. Sutor, snag-boat No. 6, and will ply along the Lower Ohio, Mississippi and Missouri rivers, her crew consisting of forty-three men. The vessel is of the pattern known as the twin-bow snag-boat. She is 187 bows, 30 feet apart, at a distance of 65 feet from the bearding line of the stem. Measured directly aft, she is 5 feet 11 is contined to the youngster? relatives, but generally a neighbor or two are added to the train to give an unbiased opinion. I suppose, and we generally a head to be neighbor of coins and the position of the body-guard on the static district in the provide of the body-guard on the static tisket, and marked with a provide of the body-guard on the static tisket, and marked with a warkward. His pretty little wife blushed half the time—it was the first baby, one see—and the grandmother, two annisons of them an old maid—and a neighbor assumed charge of the affair. I knew at a glance that it was unless for me to protest. The old maid anut seized budy of the control of the performance to begin. The motter of the performance to begin. The motter attempted to smile at her darling, but the effort came near ending in tears. The grandmother, who had provided herself with a large jumping-jack, painted red, white and black, stood beside the camera, cutrued fall at him began to cry. This was the signal for the performance to begin. The motter attempted to smile at her darling, but the effort came near ending in tears. The grandmother, who had provided herself with a large jumping-jack, painted red, white and black, stood beside the camera, cutrued fall at him began to cry. This was the signal for the performance to begin. The motter attempted to smile at her darling, but the effort came near ending in tears. The grandmother, who had provided herself with a large jumping-jack, painted red, white and black, stood beside the camera, cutrued fall at him began to cry. This was the signal for the performance to begin. The motter and the attempted to smile at her darling, but the effort came near ending in tears.

The grandmother, who had provided herself with a large jumping-jack, painted red, white and black, stood beside the camera, cutrued fall at him began to cry. The body stood is an attitude at lace of the control of the performance of the control of the performance to begin. The motter of the performance to begin. The motter nehes apart, and the top side is united

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yourself in accord, as it were, with his mind, through the medium of that affection, you will utterly fail in teaching him a single accomplishment worthy of a name. accomplishment worthy of a name. It is a great mistake to suppose that the whip is essential to the government and regulation of these animals. They are too often abused by their teacher when it is his own error. To whip a puppy ten minutes after he has committed an Headquarters for Money! error would be absurd, as his latent natural instinct is almost lost for the time being, but if he is punished the in-stant the fault is committed, he at once

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